



PTO/SB/88 (08-03)

Attorney Docket No. 22395-440130US

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: James A. Fitch et al.Application No./Patent No.: 09/989,091Filed/Issue Date: November 19, 2001Entitled: Interface For Wireless Location InformationOpenwave Systems Inc., a Delaware corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

In the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 012627, Frame 0736, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

8/24/04

Date

650 315-4565

Telephone number

ALAN D. MINSK

Typed or printed name

AM

Signature

DIR. AND PATENT COUNSEL

Title

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Patent and Trademark Office  
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AUG 14, 2004

PTAS

MARSH FISCHMANN & BREYFOGLE LLP  
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3151 SOUTH VAUGHN WAY  
SUITE 411  
AURORA, CO 80014

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/11/2004

REEL/FRAME: 014718/0409  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 423650000

ASSIGNOR:  
SIGNALSOFT CORP.

DOC DATE: 06/09/2004

ASSIGNEE:  
OPENWAVE SYSTEMS, INC.  
1400 SEAPORT BOULEVARD  
REDWOOD CITY, CALIFORNIA 94063

SERIAL NUMBER: 09989091

FILING DATE: 11/19/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: INTERFACE FOR WIRELESS LOCATION INFORMATION

SERIAL NUMBER: 09788036

FILING DATE: 02/16/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR DETERMINING IF THE LOCATION OF A WIRELESS COMMUNICATION  
DEVICE IS WITHIN A SPECIFIED AREA

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ASSIGNMENT

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WHEREAS, SignalSoft Corp., a Colorado corporation having a place of business at 5665 Flatirons Parkway, Boulder, Colorado 80301, is the record owner of an interest in and to U.S. Patents and/or Patent Applications as shown on Appendix A and Appendix B attached hereto; and

WHEREAS, Openwave Systems Inc., a Delaware corporation having a place of business at 1400 Seaport Boulevard, Redwood City, California 94063, has acquired said patents and/or patent applications and desires to record its interest therein;

NOW THEREFORE, be it known that for certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, SignalSoft Corp. does hereby acknowledge its transfer of, and otherwise sell, assign and transfer to Openwave Systems Inc., its successors, legal representatives and assigns, any and all of its interest in the aforesaid applications for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extensions filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the inventions in the United States or any other country; SignalSoft Corp. also assigns any right, title or interest in and to the said inventions which have not already been transferred to Openwave Systems Inc.; SignalSoft Corp. warrants that no assignment has been made of the inventions, applications or patents therefor to a party other than Openwave Systems Inc., and is under no obligation to make any assignment of the inventions, applications, or patents therefor to any other party; and SignalSoft Corp. further agrees to cooperate with Openwave Systems Inc., hereunder in the obtaining and sustaining of any and all such patents and patent applications and in confirming SignalSoft Corp.'s exclusive ownership of the inventions, but at the expense of Openwave Systems Inc.

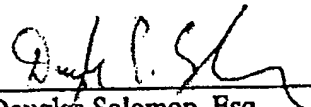
The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent for the pending patent applications listed under Appendix B solely in accordance with the terms of this Assignment, to Openwave Systems Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the day indicated hereunder.

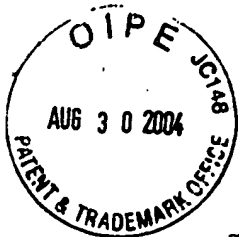
Date:

6/9/04

By:

  
Douglas Solomon, Esq.  
Assistant Secretary, SignalSoft Corp.

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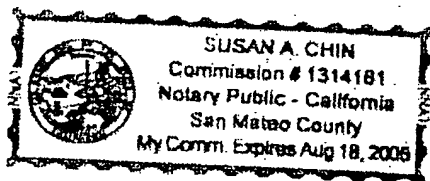
STATE OF CALIFORNIA )  
COUNTY OF SAN MATEO ) ss.

Before me, a Notary Public in and for said County and State, personally appeared Douglas Solomon, Esq., who acknowledged himself to be the Assistant Secretary of SignalSoft Corp. and that he, as such Assistant Secretary, being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed, by signing the name of the corporation by himself as Assistant Secretary of SignalSoft Corp.

Given under my hand and seal of office this 8<sup>th</sup> day of June, 2004.

Susan A. Chin  
Notary Public

My Commission Expires: Aug. 18, 2005



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06/11/2004  
700090939

Docket No.: 42365-00000

FORM PTO-1005 (Modified)  
(Rev. 03-01)  
OMB No. 0951-0027 (exp. 5/31/2006)  
PUBA/REV02

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

## PATENTS ONLY

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To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

SignalSoft Corp.

## 2. Name and address of receiving party(ies):

Name: Openwave Systems Inc.Address: 1400 Seaport Boulevard

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_City: Redwood CityState/Prov.: CACountry: United StatesZIP: 94063Execution Date: June 9, 2004

Additional name(s) &amp; address(es)

☐ Yes ☒ No

## 4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

09/989,091

11/19/2001

6,321,092

09/788,036

02/16/2001

6,212,392

09/903,982

07/11/2001

6,424,840

09/923,486

08/07/2001

Additional numbers

☒ Yes ☐ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kent A. Fischmann, Esq.Registration No. 35,511Address: MARSH FISCHMANN & BREYFOGLE LLP3151 South Vaughn Way, Suite 411City: AuroraState/Prov.: COCountry: United StatesZIP: 80014

## 6. Total number of applications and patents involved:

17

7. Total fee (37 CFR 3.41):.....\$ 680.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

## 8. Deposit account number:

50-1419

(Attach duplicate copy of this page if paying by deposit account)

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kent A. Fischmann

Name of Person Signing

Kent A. Fischmann

Signature

June 11, 2004

Date

Total number of pages including cover sheet, attachments, and document: 8Mail documents to be recorded with required cover sheet information to:  
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Docket No. 42365-00000

**RECORDATION FORM COVER SHEET**

**Conveying Party:** SignalSoft Corp.

**Receiving Party:** Openwave Systems Inc.  
1400 Seaport Boulevard  
Redwood City, CA 94063

**APPENDIX - Additional Numbers**

<b>Patent Application No.</b>	<b>Filing Date</b>
10/076,682	February 14, 2002
10/071,116	February 7, 2002
09/119,493	July 20, 1998
09/707,079	November 6, 2000
09/411,446	October 1, 1999
10/619,862	July 14, 2003
10/071,117	February 7, 2002
10/133,221	April 26, 2002
10/425,299	April 29, 2003
60/332,674	November 19, 2001

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**APPENDIX A**

**Issued Patents**

1. U.S. Patent Application No. 09/396,235 entitled "Multiple Input Data Management for Wireless Location-Based Applications", issued on November 20, 2001 as U.S. Patent No. 6,321,092 and further identified as Attorney Docket No. 42365-00170.
2. U.S. Patent Application No. 09/258,228 entitled "Method for Determining if the Location of a Wireless Communication Device is Within a Specified Area", issued on April 3, 2001 as U.S. Patent No. 6,212,392 and further identified as Attorney Docket No. 42365-00060.
3. U.S. Patent Application No. 09/435,407 entitled "Method and System for Dynamic Location-Based Zone Assignment for a Wireless Communication Network", issued on July 23, 2002 as U.S. Patent No. 6,424,840 and further identified as Attorney Docket No. 42365-00150

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## **APPENDIX B**

### **Patent Applications**

1. U.S. Patent Application No. 09/989,091 entitled "Interface for Wireless Location Information" filed on November 19, 2001 and published on June 20, 2002 as Publication No. US-2002-0077119-A1, and further identified as Attorney Docket No. 42365-00790.
2. U.S. Patent Application No. 09/788,036 entitled "Method for Determining if the Location of a Wireless Communication Device is Within a Specified Area" filed on February 16, 2001 and published on March 7, 2002 as Publication No. US-2002-0028682-A1, and further identified as Attorney Docket No. 42365-00450.
3. U.S. Patent Application No. 09/903,982 entitled "Monitoring Boundary Crossings in a Wireless Network" filed on July 11, 2001 and published on January 16, 2003 as Publication No. US-2003-0013449-A1, and further identified as Attorney Docket No. 42365-00300.
4. U.S. Patent Application No. 09/923,486 entitled "Service Zone Management System and Method" filed on August 7, 2001 and published on February 13, 2003 as Publication No. US-2003-0032404-A1, and further identified as Attorney Docket No. 42365-00320.
5. U.S. Patent Application No. 10/076,682 entitled "Method and System for Managing Location Information for Wireless Communications Devices" filed on February 14, 2002 and published on January 30, 2003 as Publication No. US-2003-0023726-A1, and further identified as Attorney Docket No. 42365-00580.
6. U.S. Patent Application No. 10/071,116 entitled "Efficient Location Determination for Mobile Units" filed on February 7, 2002 and published on August 7, 2003 as Publication No. US-2003-0148771-A1, and further identified as Attorney Docket No. 42365-00600.
7. U.S. Patent Application No. 09/119,493 entitled "Subscriber Delivered Location-Based Services", filed on July 20, 1998 and further identified as Attorney Docket No. 42365-00090.
8. U.S. Patent Application No. 09/707,079 entitled "Subscriber Delivered Location-Based Services", filed on November 6, 2000 and further identified as Attorney Docket No. 42365-00380.

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9. U.S. Patent Application No. 09/411,446 entitled "Location Based Auctioning Services for Wireless Networks", filed on October 1, 1999 and further identified as Attorney Docket No. 42365-00190.
10. U.S. Patent Application No. 10/619,862 entitled "Providing Graphical Location Information for Mobile Resources Using a Data-Enabled Network", filed on July 14, 2003 and further identified as Attorney Docket No. 42365-01010.
11. U.S. Patent Application No. 10/071,117 entitled "Enhanced PDE Selection" filed on February 7, 2002 and further identified as Attorney Docket No. 42365-00590.
12. U.S. Patent Application No. 10/133,221 entitled "Formatting Location Information Based on Output Device Specifications" filed on April 26, 2002 and further identified as Attorney Docket No. 42635-00330.
13. U.S. Patent Application No. 10/425,299 entitled "Efficient Tracking Method for Location Determination of Mobile Units" filed on April 29, 2003 and further identified as Attorney Docket No. 42365-00960.
14. U.S. Provisional Patent Application No. 60/332,674 entitled "Horizontal API (HAPI) System" filed on November 19, 2001, now expired, and further identified as Attorney Docket No. 42365-000780.

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SERIAL NUMBER: 09903982 FILING DATE: 07/11/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: MONITORING BOUNDARY CROSSINGS IN A WIRELESS NETWORK

SERIAL NUMBER: 09923486 FILING DATE: 08/07/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: SERVICE ZONE MANAGEMENT SYSTEM & METHOD

SERIAL NUMBER: 10076682 FILING DATE: 02/14/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD AND SYSTEM FOR MANAGING LOCATION INFORMATION FOR WIRELESS COMMUNICATIONS DEVICES

SERIAL NUMBER: 10071116 FILING DATE: 02/07/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: EFFICIENT LOCATION DETERMINATION FOR MOBILE UNITS

SERIAL NUMBER: 09119493 FILING DATE: 07/20/1998  
PATENT NUMBER: ISSUE DATE:  
TITLE: SUBSCRIBER DELIVERED LOCATION-BASED SERVICES

SERIAL NUMBER: 09707079 FILING DATE: 11/06/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: SUBSCRIBER DELIVERED LOCATION-BASED SERVICES

SERIAL NUMBER: 09411446 FILING DATE: 10/01/1999  
PATENT NUMBER: ISSUE DATE:  
TITLE: LOCATION BASED AUCTIONING SERVICES FOR WIRELESS NETWORKS

SERIAL NUMBER: 10619862 FILING DATE: 07/14/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROVIDING GRAPHICAL LOCATION INFORMATION FOR MOBILE RESOURCES USING A DATA-ENABLED NETWORK

SERIAL NUMBER: 10071117 FILING DATE: 02/07/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: ENHANCED PDE SELECTION

SERIAL NUMBER: 10133221 FILING DATE: 04/26/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: FORMATTING LOCATION INFORMATION BASED ON OUTPUT DEVICE SPECIFICATIONS

SERIAL NUMBER: 10425299 FILING DATE: 04/29/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: EFFICIENT TRACKING METHOD FOR LOCATION DETERMINATION OF MOBILE UNITS

SERIAL NUMBER: 60332674 FILING DATE: 11/19/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: HORIZONTAL API (HAPI) SYSTEM

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SERIAL NUMBER: 09396235 FILING DATE: 09/15/1999  
PATENT NUMBER: 6321092 ISSUE DATE: 11/20/2001  
TITLE: MULTIPLE INPUT DATA MANAGEMENT FOR WIRELESS LOCATION-BASED  
APPLICATIONS

SERIAL NUMBER: 09258228 FILING DATE: 02/26/1999  
PATENT NUMBER: 6212392 ISSUE DATE: 04/03/2001  
TITLE: METHOD FOR DETERMINING IF THE LOCATION OF A WIRELESS COMMUNICATION  
DEVICE IS WITHIN A SPECIFIED AREA

SERIAL NUMBER: 09435407 FILING DATE: 11/05/1999  
PATENT NUMBER: 6424840 ISSUE DATE: 07/23/2002  
TITLE: METHOD AND SYSTEM FOR DYNAMIC LOCATION-BASED ZONE ASSIGNMENT FOR A  
WIRELESS COMMUNICATION NETWORK

STEVEN POST, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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